

## In the Claims

Amend the following claims:

1 1. (Amended) A positioner for moving an E-block and a data transducer of a disk drive  
2 relative to a storage disk, the E-block having a longitudinal axis, the positioner comprising:  
3 a magnet assembly producing a magnetic field; and  
4 a coil array that couples to the E-block and is positioned near the magnet assembly, the  
5 coil array being a generally D-shaped loop including a first segment that is positioned  
6 substantially perpendicular to the longitudinal axis of the E-block, the first segment being  
7 adapted to interact with the magnetic field to move the E-block relative to the storage disk.

1 13. (Amended) A head stack assembly for moving a data transducer of a disk drive  
2 relative to a target track of a storage disk, the head stack assembly comprising:  
3 an E-block having a longitudinal axis;  
4 a transducer assembly secured to the E-block, the transducer assembly including a data  
5 transducer;  
6 a positioner including (i) a magnet assembly producing a magnetic field, (ii) a coil array  
7 secured to the E-block and positioned near the magnet assembly, the coil array being a generally  
8 D-shaped loop including a first segment positioned substantially perpendicular to the  
9 longitudinal axis, the first segment including (i) a first portion, and (ii) a second portion; and  
10 a control system that directs current to the coil array to move the data transducer relative  
11 to the target track.

1 20. (Amended) A method for retrieving data from a target track on a rotating storage  
2 disk of a disk drive, the method comprising the steps of:  
3 providing an E-block with a longitudinal axis;  
4 securing a transducer assembly to the E-block, the transducer assembly including a data  
5 transducer;  
6 providing a magnet assembly producing a magnetic field;

7 coupling a coil array to the E-block with the coil array being positioned near the magnet  
8 assembly, the coil array being a generally D-shaped loop including (i) a first portion; and (ii) a  
9 second portion, the first and second portions being perpendicular to the longitudinal axis, the first  
10 and second portions being positioned symmetrically about the longitudinal axis; and  
11 directing current to the coil array to move the data transducer relative to the target track.

210  
1 21. (Amended) The method of claim 20 wherein directing current to the coil array  
2 includes directing current to the first portion and the second portion to generate a first force and a  
3 second force, respectively, wherein the first force is substantially equal in magnitude and  
4 opposite in direction to the second force.

Add the following claims:

211  
1 23. A positioner for moving a data transducer relative to a storage disk in a disk drive,  
2 the positioner comprising:  
3 a magnetic assembly including an upper magnetic array and a lower magnetic array; and  
4 a coil array between the magnetic arrays, wherein the coil array is a generally D-shaped  
5 loop.

1 24. The positioner of claim 23 wherein the coil array includes a first segment and a  
2 second segment, the first segment is substantially linear and the second segment forms an arc.

1 25. The positioner of claim 24 wherein the first segment is substantially perpendicular  
2 to a longitudinal axis of a head stack assembly that includes the data transducer.

1 26. The positioner of claim 25 wherein the second segment forms an arc that is  
2 centered at a pivot center of the head stack assembly.

1 27. The positioner of claim 25 wherein the first and second segments are positioned  
2 symmetrically about the longitudinal axis.

1           28.     The positioner of claim 25 wherein the first segment includes a first portion, a  
2     second portion and a center portion therebetween, the first and second portions are positioned  
3     between the magnetic arrays, and the center portion is not positioned between the magnetic  
4     arrays.

1           29.     The positioner of claim 23 wherein the magnetic arrays each include an inner side,  
2     an outer side, and a pair of side wings therebetween, the inner side faces towards the data  
3     transducer and forms an arc, and the outer side faces away from the data transducer.

1           30.     The positioner of claim 29 wherein the inner side forms an arc that is centered at a  
2     pivot center for the data transducer.

1           31.     The positioner of claim 29 wherein the inner and outer sides are curved with  
2     reverse concavity relative to one another.

1           32.     The positioner of claim 29 wherein the coil array includes first and second  
2     segments and a pair of corners therebetween, and the corners are disposed on opposites sides of a  
3     longitudinal axis of a head stack assembly that includes the data transducer.

1           33.     The positioner of claim 32 wherein the corners are substantially aligned with the  
2     wings in a direction perpendicular to the longitudinal axis.

1           34.     The positioner of claim 32 wherein the corners are not substantially aligned with  
2     the wings in a direction parallel to the longitudinal axis.

1           35.     The positioner of claim 23 wherein the magnetic arrays extend a first distance  
2     parallel to a longitudinal axis of a head stack assembly that includes the data transducer, the coil  
3     array extends a second distance parallel to the longitudinal axis, and the first distance is greater  
4     than the second distance.

1           36.     The positioner of claim 23 wherein the magnetic arrays extend a first distance  
2 perpendicular to a longitudinal axis of a head stack assembly that includes the data transducer,  
3 the coil array extends a second distance perpendicular to the longitudinal axis, and the first and  
4 second distances are essentially identical.

1           37.     A positioner for moving a data transducer relative to a storage disk in a disk drive,  
2 the positioner comprising:

3               a magnetic assembly including an upper magnetic array and a lower magnetic array;

4               a coil array between the magnetic arrays, wherein the coil array is a generally D-shaped  
5 loop of wire wrapped into a plurality of turns that includes a first segment and a second segment,  
6 the first segment is substantially linear and the second segment forms an arc; and

7               a control system that electrically excites the coil array to interact with a magnetic field of  
8 the magnetic assembly.

1           38.     The positioner of claim 37 wherein the first segment includes a first portion, a  
2 second portion and a center portion therebetween, the first and second portions are positioned  
3 between the magnetic arrays, and the center portion is not positioned between the magnetic  
4 arrays.

1           39.     The positioner of claim 37 wherein the magnetic arrays extend a first distance  
2 parallel to a longitudinal axis of a head stack assembly that includes the data transducer, the coil  
3 array extends a second distance parallel to the longitudinal axis, and the first distance is greater  
4 than the second distance.

1           40.     The positioner of claim 37 wherein the magnetic arrays extend a first distance  
2 perpendicular to a longitudinal axis of a head stack assembly that includes the data transducer,  
3 the coil array extends a second distance perpendicular to the longitudinal axis, and the first and  
4 second distances are essentially identical.